

## ABSTRACT

A lens array (12) is arranged in front of the screen (11) of an image display at a distance of  $S1$ . The lens array (12) consists of  
5 lenses (121, 122) having focal lengths  $f1$  and  $f2$ . The focal length  $f1$  and  $f2$  and the distance  $S1$  determine the forming positions of first and second imaging planes (13, 14). The first imaging plane (13) is formed at a position of distance  $S3$  from the lens array (12) and the second imaging plane (14) is formed at a position of distance  $S2$ .  
10 More specifically, a pixel (111) on the screen (11) is imaged as a first imaging element (131) of the first imaging plane (13) at a position of  $S1+S3$  from the screen (11) and a pixel (112) on the screen (11) is imaged as a second imaging element (142) of the second imaging plane (14) at a position  $S1+S2$  from the screen (11). A viewer (15)  
15 can attain stereoscopic feeling when viewing them.